
NPDES Permits: Types, Coverage, and Emerging Program Areas

Learning Objectives

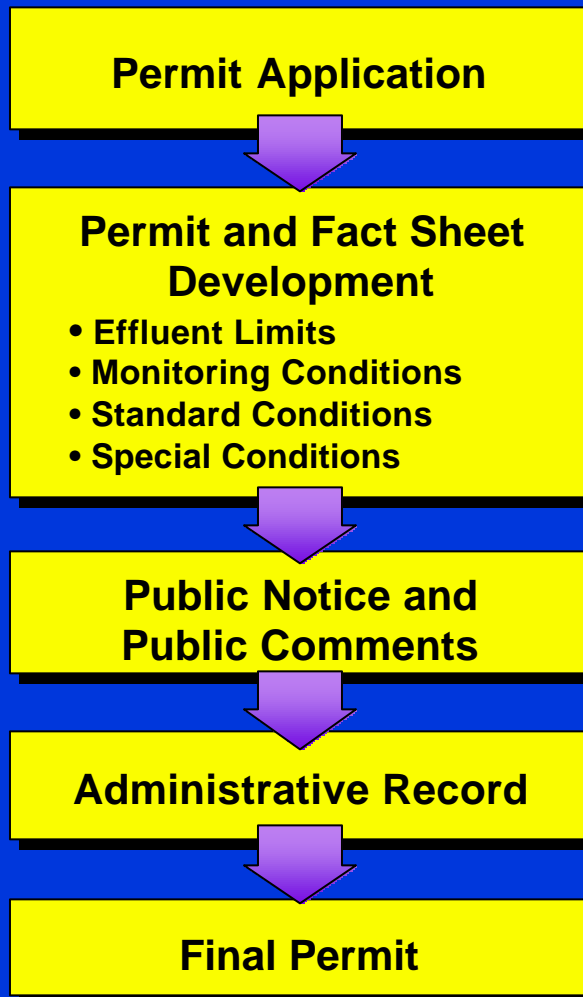
- ◆ Describe NPDES permit types
- ◆ Identify the basic components of an NPDES permit
- ◆ Discuss the “universe” of facilities covered by NPDES permits
- ◆ Discuss new and emerging program responsibilities

Types of NPDES Permits – Individual

◆ Individual Permit

- 1 application submitted → 1 permit issued
- Appropriate where site-specific limits, management practices, monitoring and reporting, or other facility-specific permit conditions are needed

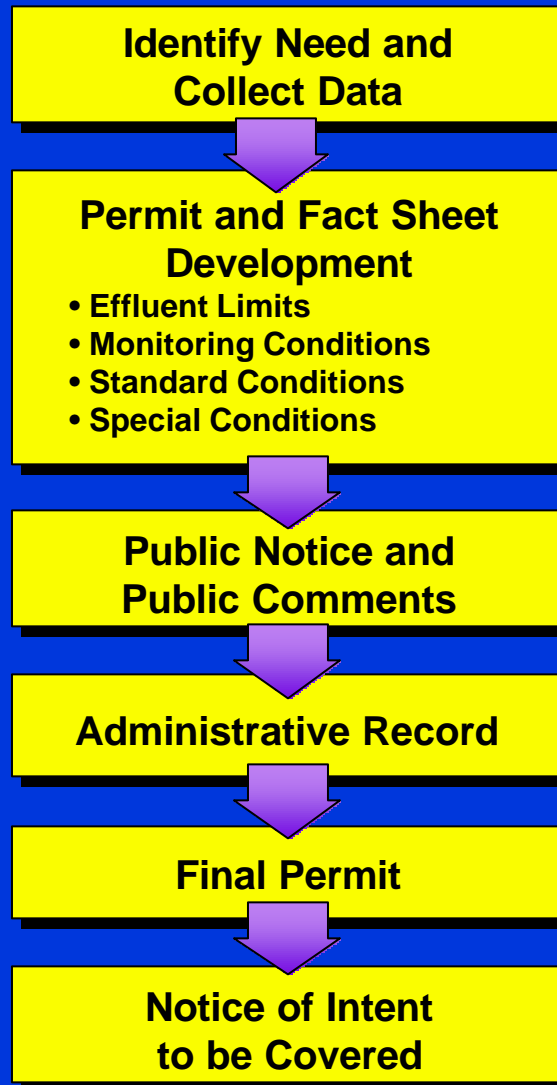
Individual Permit Issuance Process



Types of NPDES Permits - General

- ◆ **General Permit (40 CFR 122.28)**
 - 1 permit issued → many applications submitted
 - Appropriate where multiple dischargers require permit coverage, sources and discharges are similar, permit conditions are relatively uniform
 - Permit must identify:
 - Area of coverage
 - Sources covered
 - Application process (Notice of Intent)

General Permit Issuance Process



Permit Components

Industry-Specific Components

- Effluent Guidelines
- BPJ

Components of All Permits

Cover Page

Effluent Limitations

Technology-Based

Water Quality-Based

Monitoring & Reporting Requirements

Special Conditions

Compliance Schedules

Storm Water

Special Studies, Evaluations, and Other Requirements

Standard Conditions

Municipal-Specific Components

- Secondary
- Equivalent to Secondary

- Pretreatment
- CSOs
- Municipal Sewage Sludge



Overview of the Current and Projected NPDES Universe (Estimates as of 4/03)

Type of Facility		Approximate Number of Facilities
Major	• Individual Permits	6,700
	• POTWs	(4,200)
	• Non-municipals	(2,500)
Minor	• Individual Permits	48,000
	• POTWs	(16,000)
	• Non-municipals	(32,000)
Minor	• Covered by General Permits	37,000
	• Non-Storm Water	
	• POTWs and industrial facilities	

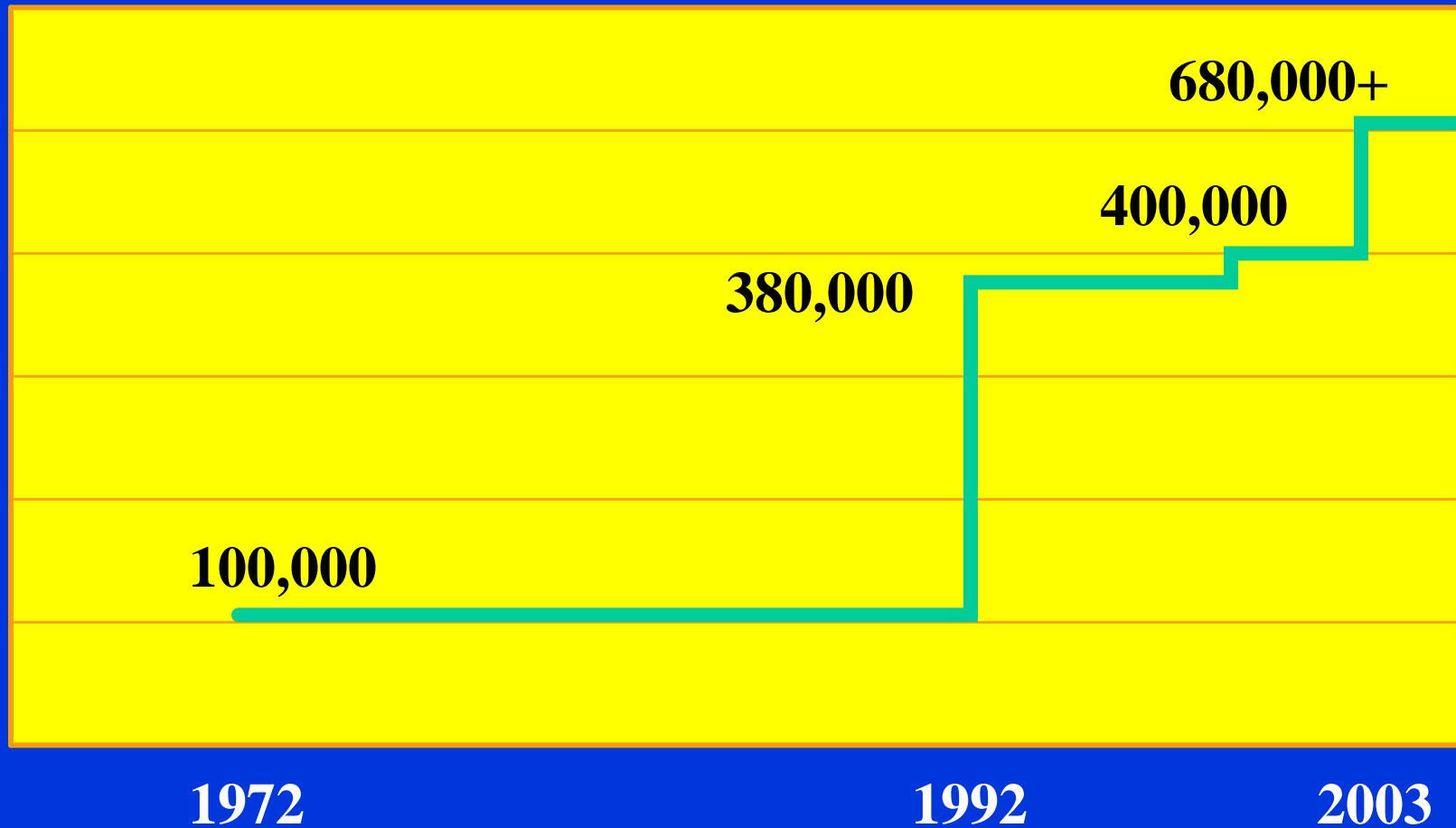
Overview of the Current and Projected NPDES Universe (Continued)

Type of Facility	Approximate Number of Facilities
Storm water: Phase I MS4s	270
Storm water: Phase II MS4s	5,000
Storm water: Phase I Industrial	90,000 est.
Storm water: Phase II Industrial	80,000 est.
Storm water: Phase I Construction	190,000 est. per year
Storm water: Phase II Construction	200,000 est. per year
Sludge-Only Facilities	6,000 est.

Growth of the NPDES Program

(Number of facilities or sources)

Number of Regulated
Facilities/Sources



Emerging Program Areas

- ◆ Storm Water Phase II Implementation
- ◆ CAFO Program Implementation
- ◆ Cooling Water Intake Structures - CWA §316(b)
- ◆ Sanitary Sewer Overflows ?
- ◆ Aquatic Herbicides and Pesticides ?
- ◆ Ballast Water (invasive species) ?
- ◆ Water Transfers ?

NPDES Storm Water Program

- ◆ **Phase I - November 16, 1990**
 - Medium and Large Municipal Separate Storm Sewer Systems (MS4s)
 - Industrial Activity, including large construction activity (>5 acres)
- ◆ **Phase II - December 8, 1999**
 - Small MS4s
 - Small construction activity (1-5 acres)
 - No exposure (industrial activity)

Storm Water Phase II

◆ Implementation Timeline

- Small construction activities (1 – 5 acres) permitted by 3/10/03
- Small MS4s submit application or NOI by 3/10/03
- “No exposure” waivers available since 12/99

◆ Additional information and fact sheets:

- www.epa.gov/npdes/stormwater

Concentrated Animal Feeding Operations

- ◆ Revisions to NPDES Regulations and CAFO Guideline signed 12/15/02 (FR 2/12/03)
- ◆ New rule effective 4/14/03
- ◆ Requires permit coverage for approximately 15,500 CAFOs
- ◆ State NPDES programs should be revised as needed within 1 year
 - 2 years if legal authority change required

Concentrated Animal Feeding Operations

- ◆ All Large Operations Must Apply
 - Permit Exemption Eliminated
 - Dry Poultry Included
- ◆ Effluent Limitation Guidelines (ELG)
 - No Discharge exc. large rainfall (e.g. 25/24)
 - Land Application Requirements (N and P)
- ◆ Nutrient Management Plan Required
 - Implement by December 2006
- ◆ Annual Report Required

Cooling Water Intake Structures - CWA § 316(b)

- ◆ **Phase I – Final Regulations for new facilities**
 - **40 CFR 125. 80**
 - **December 18, 2001 (65 FR 65256)**
 - Applies to new power plants and manufacturers that have NPDES permits, withdraw > 2 MGD from waters of the U.S., and use 25% or more for cooling
 - Standards differ based on design intake flow and water-body type

Cooling Water Intake Structures - CWA § 316(b)

- ◆ **Regulations for Existing Facilities:**
 - **Phase II – Large Power Plants**
 - Proposed 2/28/02
 - Planned final 2/16/04
 - **Phase III – Small Power Plants and Manufacturers**
 - Planned proposed 11/1/04
 - Planned final 6/1/06
- ◆ <http://www.epa.gov/waterscience/316b>

Sanitary Sewer Overflows (SSO)

- ◆ **Draft Proposed SSO Rule**
 - January 4, 2001 draft notice of proposed rulemaking
 - January 24, 2001 notice withdrawn
- ◆ **EPA is continuing to consider options, but no schedule for re-proposal**
- ◆ **<http://www.epa.gov/npdes/sso>**